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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,256	03/23/2004	Kazuhiro Shimawaki	4468-012B	1914
7590 01/16/2007 LOWE HAUPTMAN GILMAN & BERNER, LLP 1700 Diagonal Road, Suite 300 Alexandria, VA 22314			EXAMINER PERILLA, JASON M	
			ART UNIT 2611	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
2 MONTHS	01/16/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/806,256	SHIMAWAKI, KAZUHIRO	
	Examiner	Art Unit	
	Jason M. Perilla	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 23 October 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 4,5,9,10,14,15,19 and 20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) 4,5,9,10,14,15,19 and 20 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. 09/712,844.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 4, 5, 9, 10, 14, 15, 19, and 20 are pending in the instant application.

Claim Objections

2. Claims 4, 5, 9, 10, 14, 15, 19 and 20 are objected to because of the following informalities:

The following versions of claims 4, 5, 9, 10, 14, 15, 19, and 20 are presented to overcome objections to the claims:

4. A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:
 a phase difference recording means for recording a time difference between a second synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a first synchronism pattern detecting timing, as an initial one at which a first of the plurality of the synchronism patterns is initially detected in the reception data;
 a timing generating means for generating a timing for decision; and
 a collation and synchronism decision means for collating the reception data with the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the timing for decision,
 wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision means collates the reception data with the expectation data,
 and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the

phase difference recording means, when the collation and synchronism decision means gives a decision for inconsistency in phase phase.

5. A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:

a phase difference recording means for recording a time difference between a current synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a previous synchronism pattern detecting timing, as a previous one at which a first of the plurality of the synchronism patterns is detected in a previous time in the reception data;

a collation and synchronism decision means for collating the reception data with reference the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the previous synchronism pattern detecting timing; and

a timing generating means operative, when the collation and synchronism decision means gives a decision for inconsistency in phase, for shifting the previous synchronism pattern detecting timing by the time difference recorded in the phase difference recording means.

9. A reception data synchronizing method for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a second synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a first synchronism pattern detecting timing, as an initial one at which a first of the plurality of the synchronism patterns is initially detected in the reception data;

a timing generating step for generating a timing for decision; and

a collation and synchronism decision step for collating the reception data with the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the timing for decision,

wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision step collates the reception data with the expectation data;

and wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision step collates the reception data with the expectation data;

and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the phase difference recording step, when the collation and synchronism decision step gives a decision for inconsistency in phase.

10. A reception data synchronizing method for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a current synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a previous synchronism pattern detecting timing, as a previous one at which a first of the plurality of the synchronism patterns is detected in a previous time in the reception data;

a collation and synchronism decision step for collating the reception data with the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the previous synchronism pattern detecting timing; and

a timing generating step operative, when the collation and synchronism decision step gives a decision for inconsistency in phase, for shifting the previous

synchronism pattern detecting timing by the time difference recorded in the phase difference recording step.

14. A computer-readable medium embodying a computer program of instructions ~~for execution executable~~ by ~~the~~ a computer to perform a reception data synchronizing method for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a second synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a first synchronism pattern detecting timing, as an initial one at which a first of the plurality of the synchronism patterns is initially detected in the reception data;

a timing generating step for generating a timing for decision; and

a collation and synchronism decision step for collating the reception data with the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the timing for decision,

wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision step collates the reception data with the expectation data,

and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the phase difference recording step, when the collation and synchronism decision step give a decision for inconsistency in phase.

15. A computer-readable medium embodying a computer program of instructions ~~for execution executable~~ by ~~the~~ a computer to perform a reception data synchronizing method for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a current synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a previous synchronism pattern detecting timing, as a previous one at which a first of the plurality of the synchronism patterns is detected in a previous time in the reception data;

a collation and synchronism decision step for collating the reception data with the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the previous synchronism pattern detecting timing; and

a timing generating step operative, when the collation and synchronism decision step gives a decision for inconsistency in phase, for shifting the previous synchronism pattern detecting timing by the time difference recorded in the phase difference recording step.

19. A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:

a phase difference recording device that records a time difference between a second synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a first synchronism pattern detecting timing, as an initial one at which a first of the plurality of the synchronism patterns is initially detected in the reception data;

a timing generating device for generating a timing for decision; and
a collation and synchronism decision device that collates the reception data with the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the timing for decision, wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision device collates the reception data with the expectation data,

and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the phase difference recording device, when the collation and synchronism decision device gives a decision for inconsistency in phase.

20. A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns and expectation data as an expected value of the reception data, comprising:

a phase difference recording device that records a time difference between a current synchronism pattern detecting timing at which a second of the plurality of the synchronism patterns is detected in the reception data and a previous synchronism pattern detecting timing, as a previous one at which a first of the plurality of the synchronism patterns is detected in a previous time in the reception data;

a collation and synchronism decision device for collating the reception data with the expectation data to decide whether or not the reception data is consistent in phase with the expectation data according to the previous synchronism pattern detecting timing; and

a timing generating device operative, when the collation and synchronism decision device gives a decision for inconsistency in phase, for shifting the previous synchronism pattern detecting timing by the time difference recorded in the phase difference recording device.

Appropriate correction is required.

Allowable Subject Matter

3. Claims 4, 5, 9, 10, 14, 15, 19, and 20 are indicated to contain allowable subject matter.

Conclusion

4. This application is in condition for allowance except for the following formal matters:

The claim objections above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Perilla whose telephone number is (571) 272-3055. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMP
Jason M. Perilla
January 5, 2007

jmp

Chieh M. Fan
CHIEH M. FAN
SUPERVISORY PATENT EXAMINER